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the utilization shall be shown to be advantageous and profitable in the general markets for anthracite coal, and shall have become a practical substitute for what is now considered merchantable anthracite.

“Where the claim for the premium is made upon any alleged invention or discovery, the priority or originality of such invention or discovery will be investigated, and no premium will be awarded except to the first inventor or discoverer; but when the claim is founded upon the successful introduction by the adaptation of known processes the award will be made to the person or persons who shall have effected the public use primarily and extensively.

“Any person may apply for this premium by letter addressed to the American Philosophical Society, and the primary application need only state the nature of the process, or ground of claim, and the address of the applicant.

“Such application will then be referred to a Committee of the Society before whom the full statement of the facts can be made, and by whom they will be considered and reported upon for action of the Society in making the award.

Dr. Rogers moved that all after the word “Resolved” be stricken out from Mr. Brigg’s resolution, and the following be substituted:

*Resolved*, That no advertisement shall be made until a basis be determined by the Society on which its award of premium shall be made.

Pending debate on which, both resolutions were withdrawn by the movers, and Mr. Fraley offered the following resolution, which was accepted by Mr. Briggs and Dr. Rogers as a substitute for their own respectively, and was passed:

*Resolved*, That the Secretaries of the Society be requested to prepare and submit to the Society at the next stated meeting a form of advertisement for applications for the premium on “Any successful process by which the Anthracite Coal-dust may be economically utilized.” (See Proc. A. P. S., Vol. x. p. 278.)

And the meeting was adjourned.

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*Stated Meeting, October 19th, 1877.*

Present, 12 members.

Vice-President, Mr. PRICE, in the Chair.

A photograph of M. Mariano Barcena was received for the Album.

Letters of acknowledgment were received from the

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Meteorological Institute of Vienna, October 1 (96, 88); Astronomical Society of Leipzig, September 17 (99); Royal Academy at Munich, July 1 (97); the Wurtemberg Union at Stuttgart, August 1 (95, 96, 97 and 98, returning also duplicates); the Victoria Institute, September 15 (99); Statistical Society, September 27 (99); and M. M. Barcena, Mexico, September 29 (97, 98, 99).

Letters of envoy were received from the R. Swedish Academy, June, 1877; R. Bavarian Academy, July 1, 1877; and Cambridge Philosophical Society.

Donations for the Library were received from the Imp. Academy of Russia; R. Swedish Academy; R. Danish Society; R. Observatory at Prag; Geological Institute and Anthropological Society at Vienna; the German Geological Society at Berlin; the Societies at Bremen, Giessen, Görlitz, and Stuttgart; the R. Observatory and R. Academy at Munich; the Vaudoise Society and M. Henri de Saussure, and M. F. W. C. Trafford; the Geograph. and Anthropological Societies, Academy of Medicine, Museum of Natural History, Annales des Mines, Révue Politique and M. Hugo, of Paris; Physical Society at Bordeaux; Natural History Society at Bordeaux; Academy at Brussels; Victoria Institute; R. Geographical, Zoological and Antiquarian Societies, and London Nature; Cambridge Philosophical Society; Canadian Journal, Toronto; Essex Institute; Prof. O. C. Marsh; Penn Monthly; Medical News; American Journal Med. Sciences; Mr. Geo. E. Emory of Lynn, Mass.; Botanical Gazette, Ind.; and the Meteorological Observatory at Mexico.

An obituary notice of the late Vice-President, John Chapman Cresson, was read by Mr. Fraley, followed by remarks and reminiscences by Mr. Roberts.

A communication entitled: "On Land Plants in the Silurian of N. A., and on a Fungus discovered in the Coal Measures of W. Pennsylvania. By Leo Lesquereux," was read by the Secretary.

On motion, the Secretaries were authorized to print the 8° plate, accompanying the memoir, drawn and published in the Proceedings.

Dr. Cresson communicated the analysis of a specimen of coal from Pulaski county, Va., which he exhibited and discussed with other members present.

Prof. Chase announced that at the request of Mr. Hall he had sought and found a harmonic series which exactly adapted itself to the radii of the observed orbits of Deimos and Phobus, to the radius of Mars, and to the centre of oscillation in Mars, and gave the correspondence of the theoretical and observed numbers on the black board.

Permission was given the Secretaries to report their Coal-slack advertisement at the next meeting.

Pending nominations 839, 840, 841 and 842 were read, and 839 ballotted for.

On scrutiny of the ballot boxes the election of Mr. W. B. Taylor, of the Patent Office, Washington, D. C., was announced by the Chairman.

*Stated Meeting, November 2, 1877.*

Present, 16 members.

Vice-President MR. PRICE in the Chair.

A letter accepting membership was received from Mr. Wm. B. Taylor, dated Washington, D. C., October 26, 1877.

Letters of acknowledgment were received from the New Zealand Institute, Wellington, September 7, 1877 (Trans. O. S., I to VI; N. S., I to XIV, and XV, i. ii.; Proc. VIII to XVI, except No. 96); from the Lond. Soc. of Antiquaries, October 9, 1877 (99); and the R. S. Edinboro', October 13, 1877 (99).

A letter of envoy was received from the Central Physical Observatory at St. Petersburg, September, 1877.

A letter requesting No. 88 was received from the R. In-